

CLAIMS

What is claimed is:

- 1 1. A method of processing a web page comprising:
 - 2 receiving a web page, wherein the web page includes a plurality of data
 - 3 elements and wherein each one of the plurality of data elements is at least one of a
 - 4 plurality of known data types;
 - 5 classifying each one of the plurality of data elements ;
 - 6 determining a plurality of related operations for each one of the plurality of
 - 7 classified data elements ; and
 - 8 outputting the plurality of related operations.
- 1 2. The method of claim 1, wherein outputting the plurality of related operations
- 2 includes promoting at least one of the plurality of related operations.
- 1 3. The method of claim 2, wherein promoting at least one of the plurality of
- 2 related operations comprises:
 - 3 selecting one of the pluralities of related operations;
 - 4 displaying the selected one of the plurality of related operations in a first
 - 5 mode; and
 - 6 displaying the unselected ones of the plurality of related operations in a
 - 7 second mode.

1 4. The method of claim 2, wherein promoting at least one of the plurality of
2 related operations comprises:

3 selecting at least one of the pluralities of related operations wherein the
4 selection is determined by a preference.

1 5. The method of claim 4, wherein the preference comprises a user profile.

1 6. The method of claim 4, wherein the preference comprises a service provider
2 preference.

1 7. The method of claim 4, wherein the preference comprises a financial
2 incentive.

1 8. The method of claim 1, further comprising:
2 extracting data from each one of the plurality of classified data elements ;
3 receiving a selection of one of the plurality of related operations;
4 outputting the extracted data corresponding to the selected one of the
5 plurality of related operations; and
6 processing the extracted data in the selected one of the plurality of related
7 operations.

1 9. The method of claim 1, wherein the method is executed on a user terminal.

1 10. The method of claim 1, wherein the method is executed on a server.

1 11. The method of claim 1, wherein the method is executed on a server and a
2 user terminal.

1 12. A method of processing a web page comprising:
2 receiving a web page in a server, wherein the web page includes a plurality
3 of data elements and where in each one of the plurality of data
4 elements is at least one of a plurality of known data types; data
5 elements ;
6 classifying each one of the plurality of data elements ;
7 determining a plurality of related operations for each one of the plurality of
8 classified data elements ;
9 outputting a plurality of related operations through a wireless data link to a
10 wireless user terminal;
11 extracting data from each one of the plurality of classified data elements ;
12 receiving a selection of one of the plurality of related operations;
13 outputting the extracted data corresponding to the selected one of the
14 plurality of related operations; and
15 processing the extracted data in the selected one of the plurality of related
16 operations.

1 13. A system for processing a web page comprising:

2 a processor;
3 a storage facility coupled to the processor and containing instructions
4 executable by the processor which configure the processing system to
5 receive a web page, wherein the web page includes a plurality of data
6 elements and where in each one of the plurality of data
7 elements is at least one of a plurality of known data types;
8 classify each one of the pluralities of data elements;
9 determine a plurality of related operations for each one of the
10 plurality of classified data elements ; and
11 output the plurality of related operations.

1 14. The system of claim 13, further comprising a user terminal coupled to the
2 processor and wherein the instructions executable by the processor further configure
3 the processing system to determine a plurality of related operations for each one of
4 the plurality of classified data elements and output the plurality of related operations
5 to a user terminal.

1 15. The system of claim 14, wherein the processor is coupled to the user terminal
2 via a network.

1 16. The system of claim 15, wherein the network includes at least one of a group
2 consisting of a wireless application protocol (WAP), an Internet, an intranet, a local
3 area network (LAN) and a wide area network (WAN).

1 17. The system of claim 15, wherein the user terminal includes at least one of a
2 group consisting of a personal digital assistant (PDA), a telephone, a cellular
3 telephone, a two-way pager, a computer, a website, and a server.

1 18. A machine-readable program storage medium tangibly embodying a
2 sequence of instructions executable by a machine to perform a method comprising:
3 receive a web page, wherein the web page includes a plurality of data
4 elements and wherein each one of the plurality of data elements is at
5 least one of a plurality of known data types;
6 classify each one of the plurality of data elements ; and
7 determine a plurality of related operations for each one of the plurality of
8 classified data elements .

1 19. The machine-readable program storage medium of claim 18, further
2 comprising:
3 outputting a plurality of related operations.

1 20. The machine-readable program storage medium of claim 19, wherein
2 outputting the plurality of related operations includes promoting at least one of the
3 plurality of related operations.

1 21. The machine-readable program storage medium of claim 20, wherein
2 promoting at least one of the plurality of related operations comprises:
3 selecting one of the pluralities of related operations;
4 displaying the selected one of the plurality of related operations in a first
5 mode; and
6 displaying the unselected ones of the plurality of related operations in a
7 second mode.

1 22. The machine-readable program storage medium of claim 20, wherein
2 promoting at least one of the plurality of related operations comprises:
3 selecting at least one of the pluralities of related operations wherein the
4 selection is determined by a preference.

1 23. The machine-readable program storage medium of claim 22, wherein the
2 preference comprises a user profile.

1 24. The machine-readable program storage medium of claim 22, wherein the
2 preference comprises a service provider preference.

1 25. The machine-readable program storage medium of claim 22, wherein the
2 preference comprises a financial incentive.

1 26. The machine-readable program storage medium of claim 19, further
2 comprising:
3 extracting data from each one of the plurality of classified data elements ;
4 receiving a selection of one of the plurality of related operations;
5 outputting the extracted data corresponding to the selected one of the
6 plurality of related operations; and
7 processing the extracted data in the selected one of the plurality of related
8 operations.

1 27. The machine-readable program storage medium of claim 18, wherein the
2 method is executed on a user terminal.

1 28. The machine-readable program storage medium of claim 18, wherein the
2 method is executed on a server.

1 29. The machine-readable program storage medium of claim 18, wherein the
2 method s executed on a server and a user terminal.

1 30. An apparatus for processing a web page comprising:
2 means for receiving a web page, wherein the web page includes a plurality of
3 data elements and wherein each one of the plurality of data elements
4 is at least one of a plurality of known data types;
5 means for classifying each one of the plurality of data elements ;
6 means for determining a plurality of related operations for each one of the
7 plurality of classified data elements ; and
8 means for outputting the plurality of related operations.

1 31. The apparatus of claim 30, wherein the means for outputting the plurality of
2 related operations includes means for promoting at least one of the plurality of
3 related operations.

1 32. The apparatus of claim 31, wherein the means for promoting at least one of
2 the plurality of related operations comprises:
3 means for selecting one of the pluralities of related operations;
4 means for displaying the selected one of the plurality of related operations in
5 a first mode; and
6 means for displaying the unselected ones of the plurality of related
7 operations in a second mode.

1 33. The apparatus of claim 2, wherein the means for promoting at least one of the
2 plurality of related operations comprises:

3 means for selecting at least one of the pluralities of related operations
4 wherein the selection is determined by a preference.

1 34. The apparatus of claim 33, wherein the preference comprises a user profile.

1 35. The apparatus of claim 33, wherein the preference comprises a service
2 provider preference.

1 36. The apparatus of claim 33, wherein the preference comprises a financial
2 incentive.

1 37. The apparatus of claim 30, further comprising:
2 means for extracting data from each one of the plurality of classified data
3 elements ;
4 means for receiving a selection of one of the plurality of related operations;
5 means for outputting the extracted data corresponding to the selected one of
6 the plurality of related operations; and
7 means for processing the extracted data in the selected one of the plurality of
8 related operations.